

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **07208390 A**

(43) Date of publication of application: **08.08.95**

(51) Int. Cl. **F04D 29/16**
F04D 29/08

(21) Application number: **06001499**

(22) Date of filing: **12.01.94**

(71) Applicant: **HITACHI LTD**

(72) Inventor: **TOYOSHIMA HISANORI**
JORAKU FUMIO

(54) **MOTOR FAN**

COPYRIGHT: (C)1995,JPO

(57) Abstract:

PURPOSE: To restrain the increase of friction loss by providing an annular seal member formed out of an elastic body on the inner face of a fan casing so as to slidably contact with the end edge of the suction port of a shroud, and constituting the fan out of the seal member of specific modulus of elasticity.

CONSTITUTION: A projecting part 34c is provided on the inner face of a fan casing 34, a seal member 35 adhesively fixed on the back part of a bell-mouth part 34 is fitted to the projecting part 34c and positioned so as to slidably contact with the end of the suction port end edge part 33c of the front face shroud 33a of a centrifugal impeller 33. The seal member is formed out of a member of modulus of elasticity 20-50kg/cm into an annular body. Hence, by providing the seal member formed out of an elastic body on the fan casing so as to press against the impeller, lock due to pressure between the impeller and the member is not generated by elastic deformation, hence increase of friction loss is restrained, circulating flow is surely prevented, and efficiency of the fan can be improved.

